

2019 CALIFORNIA BUILDING STANDARDS CODE OF REGULATIONS TITLE 24

**LIQUID PROPANE GAS TANK INSTALLATION
BELOW 5,000 FT ELEVATION**

- **Regardless of its size**, any ASME tank filled on-site must be located such that the filling connection and fixed liquid level gauge are at least 10' from any external source of ignition (ie: electrical service, open flame, furnace, A/C compressor, etc.) intake to a direct vented gas appliance or intake to a mechanical ventilation system.
- Tanks up to 125 gallons shall be at least 5' from buildings and property lines. Tanks of this size may be located adjacent to the building it serves under certain conditions as shown in the detail.
- Tanks of 126 to 500 gallons shall be at least 10' from buildings and property lines.
- Tanks of 501 to 2000 gallons shall be at least 25' from buildings and property lines.
- A single tank not exceeding 1,200 gallons may be 10' from buildings and property lines provided there are no other tanks within 25'.
- For installations above 5000' elevation installation shall be as prescribed by the local Fire District.

UNDERGROUND TANKS

- Underground LPG tanks are inspected, and approved by the local fire district having jurisdiction prior to building final.

ABOVEGROUND ASME LISTED TANKS

- (This figure is for illustrative purpose only. Text shall govern

INSTALLATION OF EXTERIOR GAS PIPING MATERIAL:

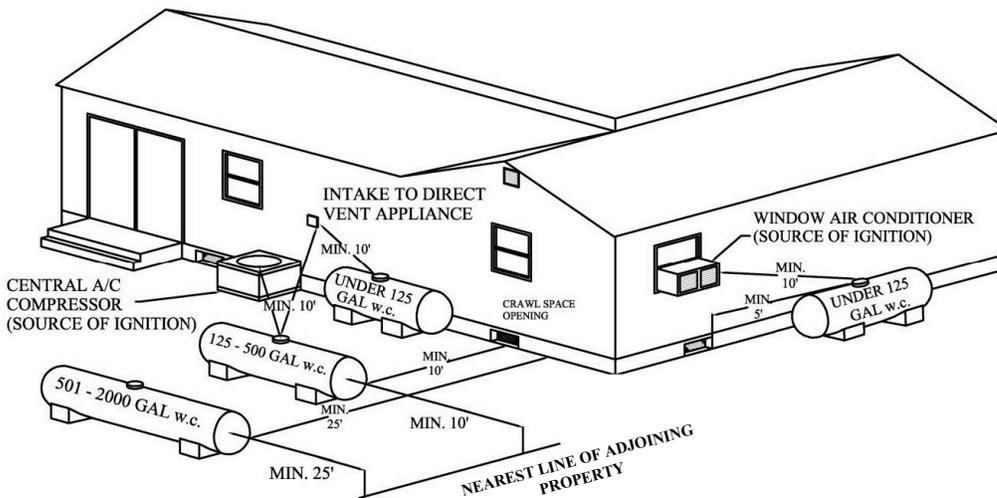
- Gas piping which is above grade may be wrought iron, steel (black or galvanized) yellow brass or internally tinned copper.
- Underground gas piping may be plastic (PE) rated for use with gas, or factory coated steel pipe.
- Gas piping must be new or previously used for gas only.

TRENCHING:

- The minimum cover shall be shall not be less than 12". Where external damage to the pipe from external forces is likely to damage pipe cover shall not be less than 18".
- Field applied wrapping shall be limited to short sections which have been stripped for threading purposes and field joints. Spirally wrap as listed, minimum 10 mil tape to a 40 mil thickness 6" beyond the joints.
- Underground plastic piping must have a tracer wire (minimum 14 AWG) or tape for its full length, one end shall be brought above ground at building wall or riser. Plastic pipe may terminate above ground where an anodeless riser is used.

TESTING:

- Test pressure to be used shall be min 10 psi for 15 minutes. For piping carrying gas pressures in excess of 14 inches water column pressure, test pressure shall be not less than 60 psi for 30 minutes.



SETBACK DISTANCES	TANKS UP TO 125 GALLONS	TANKS 125 - 500 GALLONS	TANKS 500 -2000 GALLONS
MINIMUM SETBACKS TO PROPERTY LINES	MINIMUM DISTANCE 5'	MINIMUM DISTANCE 10'	MINIMUM DISTANCE 25'
MINIMUM SETBACKS TO ELECTRICAL EQUIPMENT	MINIMUM DISTANCE 10'	MINIMUM DISTANCE 10'	MINIMUM DISTANCE 25'
MINIMUM SETBACKS TO OPENABLE WINDOWS, DOORS, AND VENTS	MINIMUM DISTANCE 10'	MINIMUM DISTANCE 10'	MINIMUM DISTANCE 25'